

Express Mail No. EV 291145507 US

**IN THE UNITED STATES PATENT AND
TRADEMARK OFFICE**

Applicant(s): Philip C. Theriault

Atty. Docket No.: PD-03W092

Serial No.:

Confirmation No.

Group Art Unit: NOT YET ASSIGNED

Filed:

Examiner: **NOT YET ASSIGNED**

TITLE: PRINT THROUGH ELIMINATION IN FIBER REINFORCED MATRIX COMPOSITE MIRRORS AND METHOD OF CONSTRUCTION

INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner For Patents
Washington, D.C. 20231

Assistant Commissioner:

This Information Disclosure Statement is filed in accordance with 37 C.F.R. §§1.56, 1.97 and 1.98. The items listed on Form PTO-1449, copies of which are enclosed, may be deemed to be pertinent to the above-identified application and are made of record to assist the Patent and Trademark Office in its examination of this application. The Examiner is respectfully requested to fully consider the items and to independently ascertain their teaching.

The submission of the listed documents is not intended as an admission that any such document constitutes prior art against the claims of the present application. Applicants reserve the right to dispute any of the listed documents as prior art during examination. Further, Applicants do not waive any right to take any action that would be appropriate to antedate or otherwise remove any listed document as a competent reference against the claims of the present application. Furthermore, the submission of this Information Disclosure Statement is not to be construed as a representation that a search has been made or that no other material information may exist.

1. [] For each of the following items listed on the enclosed copy of Form PTO-1449 that is not in the English language, an English language translation of that item or a portion thereof or a concise explanation of the relevance of that item is enclosed:

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Doc Id: _____

2. ☐ Any copy of the items listed on the enclosed copy of Form PTO-1449 that is not enclosed with this Information Disclosure Statement was previously cited by or submitted to the Patent and Trademark Office in the prior ☐ Continuation, ☐ Divisional or ☐ Continuation-In-Part application under 37 C.F.R. §1.60, U.S. Serial No. _____, filed _____.
3. ☒ No fee is due under 37 C.F.R. §1.17(p) for this Information Disclosure Statement since it is being filed in compliance with:
- ☒ 37 C.F.R. §1.97(b)(1), within three months of the filing date of the above-identified application.
 - ☐ 37 C.F.R. §1.97(b)(2), within three months of the date of entry into the national stage as set forth in §1.491 in an international application.
 - ☐ 37 C.F.R. §1.97(b)(3), before the mailing date of a first Office action on the merits.
4. ☐ No fee is due under 37 C.F.R. §1.17(p) for this Information Disclosure Statement since it is being filed in compliance with 37 C.F.R. §1.97(c), after the period specified in paragraph 3 above but before the mailing date of a final action or a Notice of Allowance (where there has been no prior final action), and is accompanied by one of the certifications pursuant to 37 C.F.R. §1.97(e) set forth in paragraph 8 below.
5. ☐ A fee is due under 37 C.F.R. §1.17(p) for this Information Disclosure Statement since it is being filed in compliance with 37 C.F.R. §1.97(c), after the period specified in paragraph 3 above but before the mailing date of a final action or a notice of allowance (where there has been no prior final action):
- ☐ A check in the amount of \$180.00 is enclosed in payment of the fee.
 - ☐ Charge the fee to Deposit Account No. _____. A DUPLICATE COPY OF THIS SHEET IS ATTACHED.
6. ☐ A fee is due under 37 C.F.R. §1.17(i)(1) for this Information Disclosure Statement since it is being filed in compliance with 37 C.F.R. §1.97(d), after the mailing date of a final action or a notice of allowance, whichever comes first, but before payment of the issue fee, and is accompanied by:
- a. one of the certifications pursuant to 37 C.F.R. §1.97(e) set forth in paragraph 8 below; and

- b. the attached petition requesting consideration of this Information Disclosure Statement; and
 - c. the fee due under 37 C.F.R. §1.17(i)(1) which is paid as set forth in paragraph 9 below.
7. ☐ A fee is due under 37 C.F.R. §1.17(i)(1) for this Information Disclosure Statement since it is being filed in compliance with:
- a. ☐ 37 C.F.R. §1.313(b)(3), after the issue fee has been paid and information cited in this Information Disclosure Statement may render at least one claim unpatentable and is accompanied by the attached Petition To Withdraw Application From Issue;
 - b. ☐ 37 C.F.R. §1.313(b)(5), after the issue fee has been paid and information cited in this Information Disclosure Statement is to be considered in a Continuation application upon abandonment of the instant application and is accompanied by the attached Petition To Withdraw Application From Issue.
 - c. The fee due under 37 C.F.R. §1.17(i)(1) is paid as set forth in paragraph 9 below.
8. ☐ I hereby certify that each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement.
- ☐ I hereby certify that no item of information in the Information Disclosure Statement filed herewith was cited in a communication from a foreign patent office in a counterpart foreign application or, to my knowledge after making reasonable inquiry, was known to any individual designated in §1.56(c) more than three months prior to the filing of this Information Disclosure Statement.
9. ☐ A check in the amount of \$180.00 is enclosed in payment of the fee due under 37 C.F.R. §1.17(p).
- ☐ Charge the fee due under 37 C.F.R. §1.17(i)(1) to Deposit Account No. _____. **A DUPLICATE COPY OF THIS SHEET IS ATTACHED.**

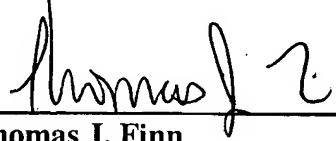
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[X] The Assistant Commissioner is hereby authorized to charge any additional fees which may be required for this Information Disclosure Statement, or credit any overpayment to Deposit Account No. 50-0888. A DUPLICATE COPY OF THIS SHEET IS ATTACHED.

Respectfully submitted,

RAYTHEON COMPANY

Dated: 8-12-03



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PD-03W092 IDS

US Patents Cited in Application

1. 4,451,119
2. 4,915,494
3. 4,256,378
4. 5,382,309
5. 5,907,430
6. 6,431,715
7. 5,178,709
8. 4,842,398

Other US Patents

1. 3,942,880
2. 4,554,197
3. 5,229,196
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9. 4,659,548
10. 4,450,207
11. 4,376,803
12. 4,828,008
13. 3,970,136

Other References

1. Jim Mayo et. al. "Ultra-Lightweight Optics for Space Applications" Proc. Of SPIE Vol. 4013, UV, Optical, and IR Space Telescopes and Instruments, (Apr, 2000) pp. 687-698.

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Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Complete if Known	
				Application Number	UNASSIGNED
				Filing Date	HEREWITH
				First Named Inventor	PHILIP C. THERIAULT
				Group Art Unit	UNASSIGNED
				Examiner Name	UNASSIGNED
Sheet	1	of	3	Attorney Docket Number	PD-03W092

[illegible][illegible]

Date	
Considered	

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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